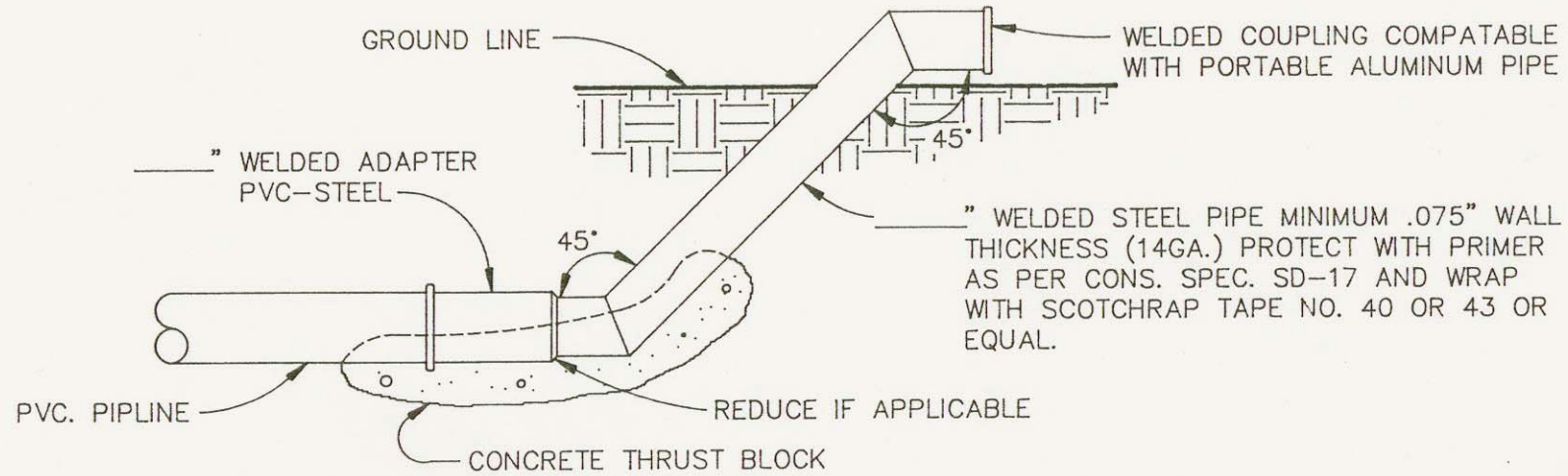
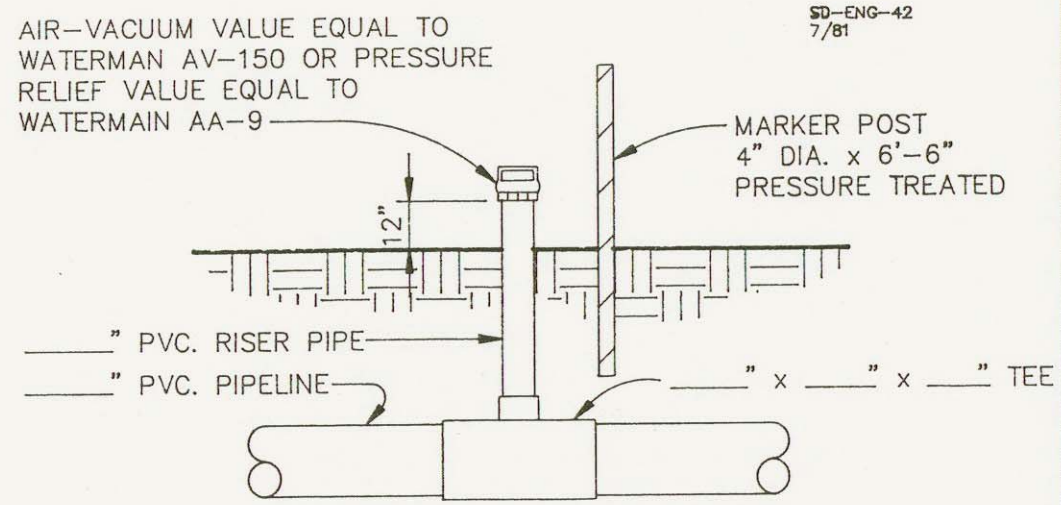
USDA–SCS

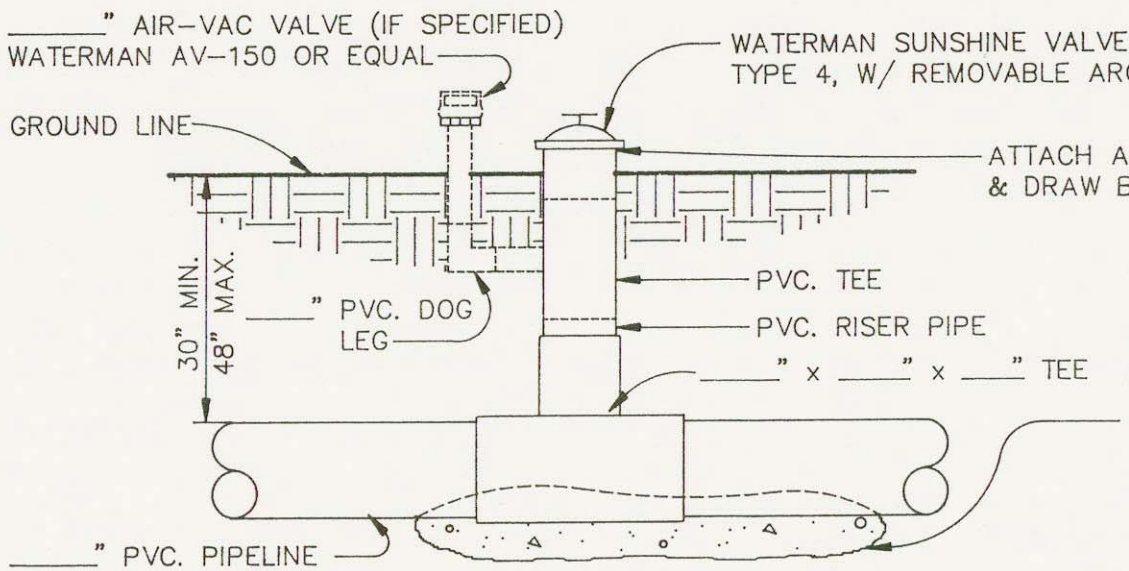
SD–ENG–42
7/81



TYPICAL "Z" PIPE OUTLET

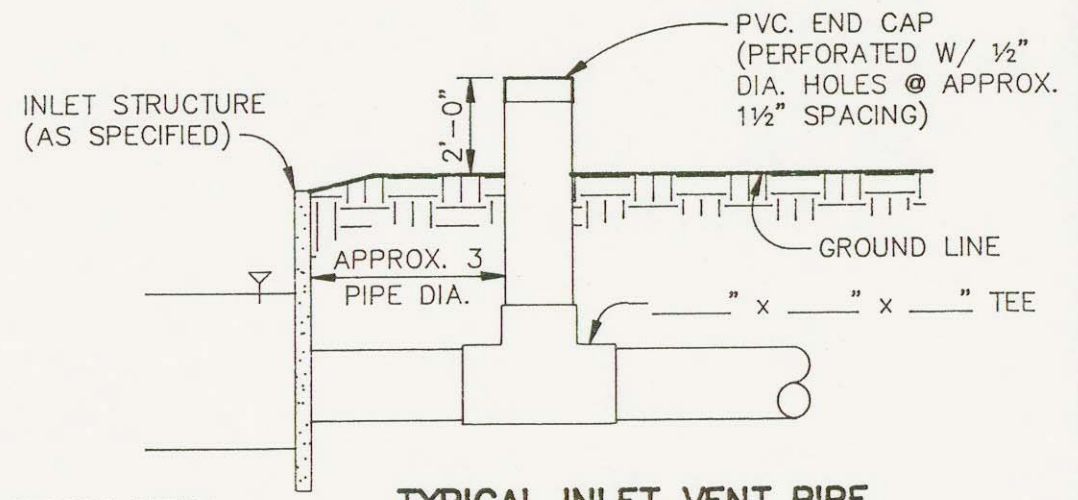


TYPICAL VALVE INSTALLATION
(AIR VACUUM OR PRESSURE RELIEF)

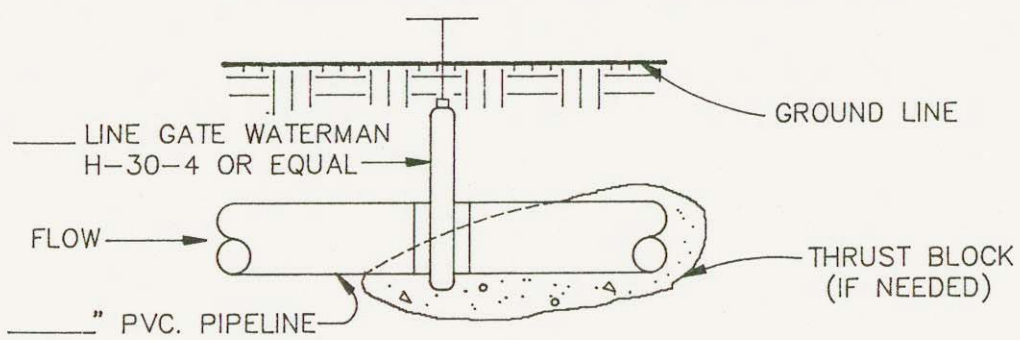


CONCRETE THRUST BLOCK (IF NEEDED) WRAP BOTTOM OF PIPE W/ PLASTIC SHEET, POUR BLOCK 6" THICK UNDER PIPE, WIDTH EQUAL TO TRENCH WIDTH & APPROX. 5' LONG.

TYPICAL ALFALFA VALVE INSTALLATION



TYPICAL INLET VENT PIPE



TYPICAL LINE GATE INSTALLATION
NOTE: AIR VENT INSTALLATION MAY BE REQUIRED

NOTES:

1. UNDERGROUND COATING FOR WELDED STEEL PIPE SHALL CONFORM TO AWWA SPECIFICATION C 203 OR BE COATED WITH PIPE PRIMER OR EQUIVALENT AND WRAPPED WITH SCOTCHRAP TAPE NO. 40 OR 43 OR EQUAL. COATING OR WRAP SHALL BE INSTALLED PRIOR TO POURING THRUST BLOCKS.
2. SEE SD–21 FOR PAINT SPECIFICATION FOR EXPOSED STEEL PIPE.
3. ALL FITTINGS AND APPURTENANCES MUST HAVE A PRESSURE RATING EQUAL TO OR EXCEEDING THE HIGHEST PRESSURE EXPECTED AT THAT POINT.
4. CONCRETE THRUST BLOCKS SHALL BE POURED AGAINST ORIGINAL OR COMPACTED TRENCH SOILS TO THE FULL BEARING AREA EQUALLY DISTRIBUTED ON EACH SIDE OF THE JOINT BEING PROTECTED FOR NONREINFORCED THRUST BLOCKS, BEARING SHALL NOT BE CONSIDERED MORE THAN 6 INCHES BEYOND PROJECTED SIDES OF THE PIPE.
5. PROTECT ALL EXPOSED PLASTIC PIPE FROM ULTRAVIOLET RAYS OF SUN BY EITHER (A) SHIELDING PIPE FROM THE SUN OR (B) PAINTING PIPE WITH 3 COATS OF HEAVY DUTY EXTERIOR LATEX PAINT OR (C) USING ULTRAVIOLET RESISTANT PIPE (FOLLOWING MANUFACTURES RECOMMENDATIONS).
6. ALL PIPELINES ARE TO BE DRAINED AND/OR PUMPED TO PROTECT FROM FREEZING.

JOB PLAN NO. 11.0B

GRAVITY IRRIGATION PIPELINE APPURTENANCES

OPERATOR _____

CONSERVATION DISTRICT _____

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

	DATE		
DESIGNED		APPROVED BY	
		TITLE	
DRAWN		TITLE	
TRACED		SHEET NO. OF	DRAWING NO.
CHECKED			